ACS

Ayon Cyber Security

AY-2428-VS-L1 TEMPEST Monitor

Features

The AY-2428-VS-L1 TEMPEST Level 1 Monitor is a full HD widescreen monitor ideal for multimedia and professional graphics TEMPEST workstation.

Approval Status

AYON CyberSecurity products are routinely tested and certified for compliance with TEMPEST and Military Standard specifications by various U.S. Government Agencies. Products can also be designed and configured to meet custom specifications as required by individual customer demand.

Warranty

One-year parts and labor;
Lifetime TEMPEST Integrity.

Standard Features	
Display	24 Inch LCD Color
Resolution	Up to 1980 x 1020 Full HD
Contrast Ratio	Up to 100,000 to 1 Dynamic
Viewing Angle	170 Horizontal 160 Vertical
Response Time	5ms Typical
Brightness	300 nits Typical
Video Input	VGA or DVI-D
Controls	Basic Front Button and OSD
Power Input	110 VAC, 47-63Hz Power Consumption 32-45 Watt Optional 220V
Weight	19 Lbs.

All specifications are subject to change without notice.

For additional information and options, please contact your AYON CyberSecurity sales representative.

Ayon CyberSecurity, Inc.
2350 Commerce Park Drive
Palm Bay, Florida 32905

Tel: (888) 438-7244
Fax: (321) 953-6465
www.ayoncs.com

HT-4S24A350-SM-L1 TEMPEST 24” Color Monitor

Features

The HT-4S24A350-SM-L1 Monitor is a TEMPEST Level 1 Widescreen 24” LCD. The 2ms response time and back design of the LCD screen provide crisp clear images. Features such as the Mega Dynamic Contrast Ratio ensure that blacks are at their absolute darkest and colors are at their brightest.

A custom shielded glass is designed to accommodate maximum viewing without affecting image quality but ensuring TEMPEST integrity.

Approval Status

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Warranty

One-year parts and labor;
Lifetime TEMPEST Integrity.

Standard Features	
LED	16:9
Screen Size	24”
Resolution	Up to 1920 x 1080
Contrast Ratio (typical)	1,000:1 (Static) 5,000,000:1 (Dynamic)
Brightness (typical)	250 nits
Response Time (typical)	2ms
Controls	OSD
Viewing Angle (typical)	170º Horizontal, 160 º Vertical
Surface	Anti-glare Glass
Power	100-240v 50/60Hz AC auto-sensing power supply, 27 Watts, EcoSaving modes
Dimensions	4.2”L x 26.5”W x 22”H

All specifications are subject to change without notice.

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Model AY-3121 TEMPEST Smart Card Reader

Features

The ACS Model AY-3121-9M (9 Pin) and Model AY-3121-15F (15 Pin) TEMPEST Smart Card Reader is a modified OmniKey 3121 Smart Card Reader Configuration (Card Reader and Connectors) that meets TEMPEST Level 1 per NSTISSAM TEMPEST/1-92 Standards.

Approval Status

AYON CyberSecurity products are routinely tested and certified for compliance with TEMPEST and Military Standard specifications by various U.S. Government Agencies. Products can also be designed and configured to meet custom specifications as required by individual customer demand.

Warranty

One-year parts and labor;
Lifetime TEMPEST Integrity.

Specifications	
Power Supply	Bus powered
Host Interface	USB 2.0 CCID1 (also compliant with USB 1.1)
Transmission Speed	12 Mbps (USB 2.0 full speed)
Standards	ISO 7816 & EMV2 2000 Level 1
Protocols	T=0, T=1, 2-wire: SLE 4432/42 (S=10), 3-wire: SLE 4418/28 (S=9), I2C (S=8)
Card Size	ID-1 (full-size)
Smart Card Interface Speed	420 kbps (when supported by card)
Smart Card Clock Frequency	Up to 8 MHz
Supported Card Types	5V, 3V and 1.8V Smart Cards, ISO 7816 Class A, B and C
Power to Smart Card	60 mA
Smart Card Detection	Movement detection with auto power-off / Automatic detection of smart card type / Short circuit and thermal protection
8 Pin handling	C4 / C8 supported
Supported APIs	PC/SC driver (ready for 2.01), CT-API (on top of PC/SC), Synchronous-API (on top of PC/SC), OCF (on top of PC/SC)
PC/SC Driver Support	Windows® 2000 / XP (32bit), 2003 Server, 2008 Server, Windows® CE 5.0 / CE.NET / CE 6.0 (depending on hardware), Windows® XP 64bit, Windows® Vista (32bit/64bit), Windows® 7 (32bit/64bit), Linux®, Mac® OS X (Power PC/Intel)
Status indicator	Dual color LED
Color	Black
Connector Cable	72” (182 cm)
Connector Type	DB9M or DB15F available
Durability	100,000 insertions
Meantime between failure (MTBF)	500,000 hours
Compliance / Certification	Windows ® WHQL³, EMV² 2000 Level 1, ISO 7816, HBCI4, USB 2.0 (USB 1.1 compatible), CCID1
Dimensions	3.50” x 4.00” x 1.5” (89mm x 102mm x 38mm)
Weight	Approx. 11 oz (318 g)

All specifications are subject to change without notice.

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AY-6530-DL-L1 TEMPEST Laptop

Features

The AY-6530-DL-L1 is a high-performance portable business class laptop that features a large 15.6” LED black-lit LCD display. Based on the Dell Latitude E6530 Laptop, the AY-6530-DL-L1 provides strength in reliability and performance, and transitions seamlessly from in-office applications to mobile presentations.

Approval Status

AYON CyberSecurity products are routinely tested and certified for compliance with TEMPEST and Military Standard specifications by various U.S. Government Agencies. Products can also be designed and configured to meet custom specifications as required by individual customer demand.

Warranty

One-year parts and labor;
Lifetime TEMPEST Integrity.

Specifications	
CPU	Intel I7 Processor Series Intel I5 Processor Series
Memory	Up to 16GB DDR3 SDRAM 2 SODIMM slots
Display	15.6” LCD screen, LED backlit 1366 x 768 resolutions Intel HD 4000 video controller
I/O	Integrated eSATA controller USB 2.0 port (DE9) Serial port (DE9) External video port 100BaseFX port
Storage	Removable Solid State SATA Drive 320GB, 500GB, and 750GB DVD+/-RW DL optical drive
Input	86-key US Keyboard Integrated Touchpad Mouse
Environmental	ENERGY STAR Qualified
Power input	AC adapter 120/220V, 50-60Hz 6 or 9 cell Lithium-Ion battery
Weight	12 lbs. (depending on option)

All specifications are subject to change without notice.

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AY-B75-A-L1 TEMPEST Workstation

Features

The AY-B75-A-L1 is our latest TEMPEST Level 1 Computer using Intel I core processors. The tower chassis can support removable SATA hard drives, DVD rewritable optical drive, and additional interface options or additional USB ports.

Approval Status

AYON CyberSecurity products are routinely tested and certified for compliance with TEMPEST and Military Standard specifications by various U.S. Government Agencies. Products can also be designed and configured to meet custom specifications as required by individual customer demand.

Warranty

One-year parts and labor;
Lifetime TEMPEST Integrity.

Specifications	
CPU	Intel I7 Processor Series Intel I5 Processor Series Intel I3 Processor Series
Memory	Up to 32GB SRAM 4SDRAM DIMM Sockets Support DDR3 1600/1333/1066Mhz
Video	Integrated Video Controller
I/O	Integrated eSATA Controller, 6Gb/Sec or 3Gb/sec USB 2.0 or 3.0 Ports Up to 2 Serial Port
Storage	Removable 320GB, 500GB, 1TB, 2TB, 7200RPM SATA Drive SATA DVD+/-RW DL Optical Drive
Expansion	1 x PCI X16 Express Slot 1 x PC X4 Slot, 1 PCI X2 Slot 2 x 5.25” and 2 x 3.50” Device Bays
Power Input	120/220V, 50-60Hz 650 Watt Power Supply
Weight	22 Lbs. (depending on options)
Dimensions	17”H x 8”W x 16”D
Options	Front-mounted USB Ports Internal Speaker 22” x 24” TEMPEST Monitor PCI X16 Dual Headed Video Adapter 100BaseFX Ethernet Port, SC or ST 100Base SX Ethernet Port USB Bilingual Keyboard USB 2-Button Scroll Mouse

All specifications are subject to change without notice.

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ClearCube TEMPEST Desktop Bundles

High-End Secure Performance, Virtualized Computing, Low-Power Consumption

US foreign embassies, NATO locations, Ministries of Defense, and ultra-high security US government facilities may now participate in IT virtualization initiatives using rugged ClearCube Technology Zero Client Desktop solutions which are modified for TEMPEST Level 1 or Level 2 security by AYON Cyber Security (ACS).

The two bundles consisting of zero clients, 24" display, keyboard, and mouse are developed, tested and certified at the ACS NSA certified facility to meet the following TEMPEST standards:

- CD7724T-L1
  - USA NSTISSAM-1-92/Level 1
  - NATO SDIP-27 Level A (formerly AMSG 720B)
- CD7724T-L2
  - USA NSTISSAM-1-92/Level 2
  - NATO SDIP-27 Level B

Each option may add an additional appropriate TEMPEST Level 1 or Level 2 certified display to create dual display functionality.

Full PC Experience with TEMPEST Security over IP

Designed to U.S. and NATO standards, TEMPEST Level 1 or Level 2 certified ClearCube TEMPEST Desktop Bundle components, CD7724T-L1 or CD7724T-L2 zero clients, display and keyboard/mouse deliver the highest level of security through the use of stateless operation at the user's desktop.

Zero clients have no local operating systems, memory, or storage, and they connect via AES256 encrypted protocol over a network to virtualized servers or dedicated ClearCube Blade PCs containing GPU host compression adapters. ClearCube TEMPEST certified Zero clients have connections for desktop peripherals such as TEMPEST Level 1 or Level 2 certified dual displays, mice, and keyboards, but all data remains on virtualized servers or Blade PCs in the datacenter. Only pixels are transmitted from the host processors to the end points.

ClearCube TEMPEST Desktop Benefits

PCoIP® technology delivers a desktop-quality computing experience over a secure, digital, fiber-optic connection

Seamless integration with VMware® Horizon View™

Significantly reduces management costs and complexity of satisfying TEMPEST Level 1 or Level 2 requirements

Tested and certified by ACS, a certified NSA facility to meet TEMPEST standards

Rugged all metal enclosure

TAA compliant

TAA Compliant Assembled & tested in the USA

vmware READY CERTIFIED

PCoIP CONNECTED

ACS Ayon Cyber Security

Administrators can quickly deploy zero clients and connect users to blades and to VMs over a switched Ethernet network or through direct connections. ClearCube's transparent desktop extension technology leverages PCoIP™ technology to enable CD7724T-L1 or CD7724T-L2 desktop zero clients to break the distance barrier, delivering a "perfect" high-end PC experience via the network for up to two displays, while transparently redirecting USB from the desktop back to the ClearCube PC blade, SmartVDI host platform, or 3rd party VDI platform.

TEMPEST customers can now benefit from the operational cost-savings, increased security, higher availability, and better device management that desktop virtualization offers.

CD7224T-L1 / L2's integrated smart card reader supports 1.3v PIV, 3.5v SIPR Token and 5v CAC authentication cards.

Fiber connections for 100Base-FX and 1000Base-FX network infrastructures are supported via CD7724T-L1 / L2's SFP modules using LC connectors.

ClearCube TEMPEST Level 1 or Level 2 Desktop Bundle Specifications

Zero Client Specs	
Chipset	Teradici TERA2321 PCoIP™
Operating System	None
Display	Single: 1920x1080 @60Hz, Color Depth: 8, 15, 16 or 24bpp
	Dual: 1920x1080 @60Hz, Color Depth: 8, 15, 16 or 24bpp
Memory	32-bit 667Mhz DDR3 RAM (512 MB)
Connections	CD7724 T-L2 — 3 - USB 2.0 Compatible ports
	One single-link DVI-D/One single link DVI-I port
Audio	HD Audio Out and Audio In
	Composite Audio 1/8-inch mini jack
	One Line out / speaker 1/8-inch mini jack
Network	Fiber SFP module ready (specify 100Base-FX; 1000Base-FX)
Power Supply	Power connection for auto-sensing power adapter
	Universal 100-240 VAC, 50-60Hz
	Output: 12 V DC, 3A
Max Consumption	15 Watts (Avg 6W)
Client Dimensions	1.54 inches x 5.73 inches x 5.16 inches (Level 1 Zero client is slightly larger due to additional shielding)
Shipping Weight	Zero client is approximately 3.2 pounds
Environment	Stationary office installation, 0° to 35° C
Display Specs	
Display Type	24" (23.6" Viewable) Wide Color TFT Active Matrix LED
Display Area	20.5" horizontal x 11.5" vertical; 23.6" diagonal
Optimum Resolution	1920x1080 Full HD
Connections	DVI-D (with HDCP) for TEMPEST Level 2
Power	AC 100-240V; 32W typical, 19W eco mode; 15W power save mode
Operating Temp	32-104°F (0-40°C)
Dimensions	W Stand 22.2"x17.4"x9.8" Packaging 25.3"x20.7"x11.9"
Weight	Gross:19.8 lb; Net w stand 14.3 lb

ACS TEMPEST products are CTP II certified by Ayon CyberSecurity. ACS is an NSA Certified TEMPEST Manufacturer and Test facility.

ACS
Ayon Cyber Security
a VDC company

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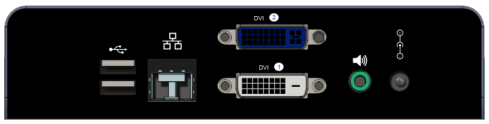
CD7724T-L2 Front View

CD7724T-L2 Rear View



Ordering Information

TEMPEST Level 1 and Level 2 Desktop Bundle Ordering Information

Model	Part Number	Part Description
TEMPEST L1 Bundle *	CD7724T-L1	Complete Desktop - CD7724T-L1 TEMPEST L1Zero Client, 24" TEMPEST L1 Display, TEMPEST L1 Keyboard, and Mouse
Additional Display	G0800228	AY-2428-VS-L1 24" TEMPEST Level 1 Display
TEMPEST L2 Bundle *	CD7724T-L2	Complete Desktop - CD7724T-L2 TEMPEST L2 Zero Client, 24" TEMPEST L2 Display, TEMPEST L2 Keyboard, and Mouse
Additional Display	G0800223	AY-2428-VS-L2 24" TEMPEST Level 2 Display
***Note for either*:**		* *Remember to specify 100Base-FX or 1000Base-FX*

© 2014 ClearCube Technology, Inc. | 3700 W Parmer Lane, Austin, TX 78727 | Voice: 512.652.3500 Fax: 512.652.3501 Toll Free: 866.652.3500 | www.clearcube.com sales@clearcube.com
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AY-33015-HP-L1 TEMPEST Laser Printer

The AY-33015-HP-L1 is a TEMPEST Level 1 monochrome printer based on the HP 3015 LaserJet. The reliable HP LaserJet printer provides professional quality printing with print speeds up to 42 pages per minute. The Energy Star Qualified printer includes a paper-saving duplex feature. An optional 100BaseFX fiber optic interface can interface to your existing secure environment for workgroup access.

Approval Status

AYON CyberSecurity products are routinely tested and certified for compliance with TEMPEST and Military Standard specifications by various U.S. Government Agencies. Products can also be designed and configured to meet custom specifications as required by individual customer demand.

Warranty

One-year parts and labor;
Lifetime TEMPEST Integrity.

Specifications	
Print Speed	42 PPM Black & White, Letter 540 MHz Processor
Printing Resolution	Up to 1200 x 1200 DPI
Memory	128MB, Up to 640MB RAM
Paper Size	Letter/Legal, Envelope, Executive, Custom Sizes
Paper Input	100 Multi-purpose Input Tray 500 Sheet Input Paper Tray Optional 500 Sheet Input Paper Tray, tray 3 and 4 250 Sheet Input Tray
Duplex	Automatic Two-sided Printing
Interface	USB 2.0 Port Optional 100BaseFX
Printer Languages	HPL 5e & HPL 6 HP Postscript Level 3 Emulation Direct PDF Printing v. 1.4
Duty Cycle	Up to 100,000 per Month
Power Input	Standard 100-127VAC, 50/60Hz Optional 220V
Weight	36 Lbs.
Dimensions	12.4”H x 17.6”W x 17”D

All specifications are subject to change without notice.

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Model AY-M451-HP-L1 TEMPEST Color Laser Printer

Features

The AY-M451-HP-L1 is a TEMPEST Level 1 color printer based on the HP LaserJet. The office-ready printer provides high quality prints in both color and black and white with print speeds up to 21 pages per minute. The Energy Star qualified printer can also print on both sides and saves paper. The optional 100BaseFX fiber optic interface can interface to your existing secure environment for workgroup access.

Approval Status

AYON CyberSecurity products are routinely tested and certified for compliance with TEMPEST and Military Standard specifications by various U.S. Government Agencies. Products can also be designed and configured to meet custom specifications as required by individual customer demand.

Warranty

One-year parts and labor;
Lifetime TEMPEST Integrity.

Specifications	
Print Speed	21 PPM B&W, 21 PPM color 600MHZ processor
Resolution	Up to 600 x 600 DPI
Memory	128MB, Up to 385MB RAM
Paper Size	Letter / legal, executive, envelope
Paper Input	50 Multi-purpose input tray 250 Sheet input paper tray Optional 250 sheet input paper tray 50 Sheet output tray
Duplex	Automatic two-sided printing
Toner	4 Cartridges, 2,600 pages
Print Language	HPL 5c & HPL 6 HP Postscript Level 3 emulation 84 scalable TrueType fonts
Interface	USB 2.0 port Optional 100BaseFX
Duty Cycle	Up to 40,000 per month
Power Input	Standard 99-138VAC, 47-63HZ Optional 220V – Model AY-M451-HP2-L1
Environmental	ENERGY STAR Qualified
Weight	58 lbs.
Dimensions	16”H x 26”W x 12.7”D

All specifications are subject to change without notice.

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SR-6200-SF Secure Laser FAX

The SR-6200-TSF is a Secure Facsimile designed to operate with government-grade encryption devices. It is based on the Panasonic UF-6200 Super G3 high-performance fax unit. It has a built-in TWAIN compatible image scanner that can convert images data into electronic format. The compact and reliable design is ideal for quick secure transmissions to remote offices.

Warranty

One-year parts and labor.

Specifications	
Print Speed	6.5 PPM B&W
Scanning Resolution	Standard 203 x 98 DPI Fine 203 x 196 DPI Super Fine 203 x 391 DPI
Printing Resolution	Fax/Copy 406 x 391 DPI Printer 600 x 600 DPI
Paper Size	Letter/Legal, Plain Paper
Paper Input	50 ADF Input Tray 250 Sheet Paper Tray
Interface	RS-232 Data Port, USB PC Port
Tonor	All-in-one Cartridge, 9,000 Pages Yield
Compatibility	Auto Protocol Sensing MIL-STD-188-161D STANAG 5000 Ricoh, Valutec, STE/STUIII Asynchronous Data for use with Omni or Similar Device 33.6Kbps to 2.4Kbps with Auto Fallback Dual Mode Group III with Security Code Access
Power Input	Standard 99-138VAC, 47-63Hz Optional 220V
Weight	19 Lbs.
Dimensions	14.6”H x 18”W x 9.9”D
Features	USB PC Connectivity for Printing and Scanning Multi-purpose LCD On-touch Send Feature 100 Stations Auto-Dialer Chain Dialing, Intelligent Redial Remote Reception Polling/Multi-station Polling Forward, Multi-Station Transmission 64 Level Halftone, Energy Saver

All specifications are subject to change without notice.

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SR-6200-TSF TEMPEST Level 1 Secure FAX

The SR-6200-TSF is a TEMPEST Secure Facsimile designed to operate with government-grade encryption devices. It is based on the Panasonic UF-6200 Super G3 high-performance fax unit. It has a built-in TWAIN compatible image scanner that can convert images data into electronic format. The compact and reliable design is ideal for quick secure transmissions to remote offices.

Approval Status

AYON CyberSecurity products are routinely tested and certified for compliance with TEMPEST and Military Standard specifications by various U.S. Government Agencies. Products can also be designed and configured to meet custom specifications as required by individual customer demand.

Warranty

One-year parts and labor;
Lifetime TEMPEST Integrity.

Specifications	
Print Speed	6.5 PPM B&W
Scanning Resolution	Standard 203 x 98 DPI Fine 203 x 196 DPI Super Fine 203 x 391 DPI
Printing Resolution	Fax/Copy 406 x 391 DPI Printer 600 x 600 DPI
Paper Size	Letter/Legal, Plain Paper
Paper Input	50 ADF Input Tray 250 Sheet Paper Tray
Interface	RS-232 Data Port, USB PC Port
Tonor	All-in-one Cartridge, 9,000 Pages Yield
Compatibility	Auto Protocol Sensing MIL-STD-188-161D STANAG 5000 Ricoh, Valutec, STE/STUIII Asynchronous Data for use with Omni or Similar Device 33.6Kbps to 2.4Kbps with Auto Fallback Dual Mode Group III with Security Code Access
Power Input	Standard 99-138VAC, 47-63Hz Optional 220V
Weight	25 Lbs.
Dimensions	14.6”H x 18”W x 9.9”D
Features	USB PC Connectivity for Printing and Scanning Multi-purpose LCD On-touch Send Feature 100 Stations Auto-Dialer Chain Dialing, Intelligent Redial Remote Reception Polling/Multi-station Polling Forward, Multi-Station Transmission 64 Level Halftone, Energy Saver

All specifications are subject to change without notice.

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STROBE 400 TEMPEST SCANNER

Features

The ACS TEMPEST Scanner is based upon the Visioneer Strobe 400 Scanner. It is a duplex scanner that provides a fast and reliable scanning solution that can be used anywhere.

Measuring only 13” x 2.25” x 3.5” and weighing a mere 3.5 lbs, the ACS TEMPEST Scanner meets the needs of the mobile user for all mobile environments.

With Visioneer’s AutoLaunch™ technology, the Strobe 400 automatically scans documents as soon as they are inserted into the scanner. When used in duplex mode, it scans documents at only 6 seconds per image.

Approval Status

AYON CyberSecurity products are routinely tested and certified for compliance with TEMPEST and Military Standard specifications by various U.S. Government Agencies. Products can also be designed and configured to meet custom specifications as required by individual customer demand.

Warranty

One-year parts and labor;
Lifetime TEMPEST Integrity.

Specifications	
Optical Resolution	Up to 600 dpi
Output Bit Depth	24-bit Color, 8-bit Grayscale, 1-bit Bitonal
Scan Mode	Dual CIS Duplex Front Sheet Feed
Scan Speed	Black/White/Color 200 dpi
Interface	Hi-Speed USB 2.0 (Compatible with 1.1)
Max Paper Size	8.5” x 37”
Power	AC or USB Cable
Weight	1.6 lbs.
Dimensions	11.6” x 2.5” x 2.0”

All specifications are subject to change without notice.

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AY-7975-CS-L1 TEMPEST IP Phone

Features

The AY-7975-CS-L1 is a TEMPEST IP phone designed to interface with your secure fiber optic based networks. The integral 2-port switch can also interface with your existing networked TEMPEST PC. The Cisco based IP phone is feature-rich and combines voice and data in a compact desktop office device.

Approval Status

AYON CyberSecurity products are routinely tested and certified for compliance with TEMPEST and Military Standard specifications by various U.S. Government Agencies. Products can also be designed and configured to meet custom specifications as required by individual customer demand.

Warranty

One-year parts and labor;
Lifetime TEMPEST Integrity.

Specifications	
Display	5 inch Touch Screen TFT Color Display 320 x 240 Resolution
Audio	Speakerphone Full Duplex with Echo Cancellation Wideband Audio Codec Support Multiple Tone Ring
Function Keys	Message Key Directories Key Settings Key Service Key Mute Button Help Button Select Button Volume Control
Interface	2-port internal switch, 100BaseFX
Security	X509v3 Certificates, Digitally Signed Images, Secure Signaling and Secure Media with AES-128
Compatibility	SCCP and SIP Protocols, 802.3AF, DHCP, LDAP3, TFTP
Power Input	120/220 VAC Adapter
Weight	5 lbs.
Dimensions	3”H x 11”W x 9.5”D

All specifications are subject to change without notice.

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AY-2921-CS-L1 TEMPEST Router

Features

The ACS AY-2921-CS-L1 router is the new and improved next generation router for transforming your branch office experience in the TEMPEST environment. Based on the Cisco 2921 Integrated Services Router Generation 2, the AY-2921-CS-L1 offers improved performance capability to support next generation WAN and network service requirements. Optimal service delivery provided on a single platform enables remote sites to become more productive through increased video-based collaboration and rich-media services, as well as securely transition to cloud and virtualized network services. Increased productivity and minimized energy consumption yield overall greater value to operating costs.

Approval Status

AYON CyberSecurity products are routinely tested and certified for compliance with TEMPEST and Military Standard specifications by various U.S. Government Agencies. Products can also be designed and configured to meet custom specifications as required by individual customer demand.

Warranty

One-year parts and labor;
Lifetime TEMPEST integrity.

Specifications	
Form Factor	4RU
Integrated Fiber WAN ports	3 GE (1 SFP)
Interface slots (enhanced high-speed WAN interface card [EHWIC])	4
Service-module slots	1
Integration-service-module (ISM) slots	1
Packet voice DSP module (PVDM) slots	3
USB ports (v2.0)	1 Control Port 1 Serial Port
Flash	256 MB
Synchronous Dynamic RAM (SDRAM)	512 MB
Fiber Ethernet LAN ports	21
Stateful Firewall	Yes
Onboard Hardware VPN Acceleration (DES, 3DES, and AES)	Yes
Intrusion prevention	Yes
Content filtering	Yes
Local conferencing	Yes
Session Initiation Protocol (SIP) Sessions	400
Power Input	100 to 240 VAC auto ranging, 47-63 Hz
Physical Weight and Dimensions	50.5 lbs. 24.25” L x 19” W x 7” H

All specifications are subject to change without notice.

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AY-SV2-L1 TEMPEST KVM Switch

Features

The ACS AY-SV2-L1 TEMPEST 2-port KVM Switch is designed to support our TEMPEST workstations with DVI interface and commercial off-the-shelf workstations suitable for Red/Black installations. The design is based on the Avocent KVM Switch and is NIAP validated to EAL2+ with multiple layers of security.

Approval Status

AYON CyberSecurity products are routinely tested and certified for compliance with TEMPEST and Military Standard specifications by various U.S. Government Agencies. Products can also be designed and configured to meet custom specifications as required by individual customer demand.

Specifications	
Security Features	Two separate secure channels Locked US design and loaded firmware Automatically clears the keyboard buffer
Port A	DVI video port USB keyboard and mouse port using shielding cabling for ACS TEMPEST workstation
Port B	DVI video port USB Keyboard and mouse port using shielding cabling for USB ports on COTS workstation
Video Output	Up to 2560 x 1600 resolution For DVI TEMPEST monitor
Keyboard Input	For TEMPEST USB keyboard only
Mouse Input	For TEMPEST USB mouse only
Controls	Front Button
Power Input	4 watt, 110-240V, 50-60Hz
Dimensions	10.5” W x 9.5” D x 2.5” H

All specifications are subject to change without notice.

Warranty

One-year parts and labor;
Lifetime TEMPEST integrity

For additional information and options, please contact your AYON CyberSecurity sales representative.

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HT-T-USBFE External USB Drive Enclosure

Portable and secure, the ACS HT-T-USBFE TEMPEST USB Drive Enclosure is the ideal storage tool to add to any laptop and/or workstation with a USB port.

Approval Status

AYON CyberSecurity products are routinely tested and certified for compliance with TEMPEST and Military Standard specifications by various U.S. Government Agencies. Products can also be designed and configured to meet custom specifications as required by individual customer demand.

Warranty

One-year parts and labor;
Lifetime TEMPEST Integrity.

Specifications	
Chassis	TEMPEST Enclosure with Hinged Access Door 2 Ft. USB Cable
Interface	USB 9-Pin (DE9) USB 2.0 & 1.1 Compatible
Standard USB Drive	1GB 2GB 4GB 8GB 16GB 32GB
Biometric USB Drive	1GB 2GB 4GB
Power Input	5 Volt DC
Weight	1.0 Lbs.
Dimensions	3”H x 2.375”W x 6.625”D

All specifications are subject to change without notice.

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HT-RACK-T-EE TEMPEST Level 1 Enclosure

The heavy duty modular TEMPEST Rack is designed to support your electronic equipment in a variety of difficult environments. From simple high-weight-bearing capacity through the most strenuous shock and vibration environments (NEBS Seismic, Mil-Spec 810, Mil-Spec 901) through EMI/shielding environments (FCC Part 15, TEMPEST, Mil-Std 285). Made of stainless steel with a combination of 2 types of gasket material to block mid- and high-frequency levels, the rack is suitable for military and TEMPEST applications, and effective against various levels of EMP intrusion. It is designed with double ledge, double plane corner construction making a strong cabinet capable of supporting 3,000 lbs. of equipment.

The HT-RACK-T-EE enclosures allow flexibility in placement and installation of your systems.

The HT-RACK-T-EE is also available in both vertical rack and sloped front console (15 & 20 degree) application.

Features

Wide Variety of Panels and Doors, I/O Panels
Fans and Blowers for Cooling
Fixed, Sliding and Modem Shelves
Chassis Guides and Supports
I/O Compartments for Panels
Storage and Equipment Drawers
Copper Bus Bars
Caster Bases, Caster Dollies and Trucks

Approval Status

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Warranty

One-year parts and labor;
Lifetime TEMPEST Integrity.

Weight	350 Lbs.
Height	21” to 84”, in any 1-3/4” increment
Width	19”, 24”, 30”, Adapters are available for mounting 23” equipment
Depth	17”, 24”, 29” and 36”
Options	OPTIONAL Shock and Vibration KIT The HT-RACK-T-EE has the option to be delivered meeting MIL-STD 810D, Section 514.3-7, 8 and 9, which simulates 20 years of rough service in a mobile application in addition to MIL-STD 901 which simulates a 10g hammer hit.

All specifications are subject to change without notice.

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HT-9AC2K-HT UPS Airborne Qualified AC Module

Features

The HR-9AC2K-HT is the most efficient highest quality uninterruptible power system that provides reliable battery backed up AC power for Commercial, Industrial, and Military applications. The HR-9AC2K-HT wide voltage input converts 115VAC-230VAC 50/60/400Hz or +270VDC to 115VAC 60Hz power at 2100 watts continuous. Small and lightweight, the HR-9AC2K-HT is ideal for rack installations where space and weight are critical commodities.

The HR-9AC2K-HT is fully network-ready. ACS offers management software that provides system-level control and status of a networked power management system or single unit control. The software can be hosted on Windows-based machines using Windows XP or Vista.

The HR-9AC2K-HT is designed and developed to military maintainability, reliability and safety requirements and MIL-STD-810 certified for airborne and other harsh environments.

Approval Status

AYON CyberSecurity products are routinely tested and certified for compliance with TEMPEST and Military Standard specifications by various U.S. Government Agencies. Products can also be designed and configured to meet custom specifications as required by individual customer demand.

Warranty
One-year parts and labor;
Lifetime TEMPEST Integrity.

Electrical Characteristics	
AC Input Voltage	Three Phase or Single Phase 115/220 volts at 400/60/50Hz. Also +270VDC
Battery Backup	Separate 1U module providing 10 minutes nominal at max power output. Additional modules can be added to increase on time.
Output Voltage	+28VDC
Output Power	2000 Watts
Efficiency	85%+
Control	
Communications Port	Ethernet (Network configuration/ control/ status, BIT) TCP/IP data exchange
Operation Log	Downloadable and reviewable
Fault Alarms	Audible and via network- Loss of AC input, low battery voltage, over temperature alarms
Emergency Power-off Control	Discrete Signal or Front Panel Switch or Ethernet Control
Software	GUI Control (Windows or Linux)

Environmental Certifications	
Operating Temperature	-18C to +50C continuous
Storage Temperature	-67C to +160C

MIL-STD-810 for Airborne Applications	
Humidity	Per Method 507, Procedure 1
Fungus	Per Method 508, Procedure 1
Salt/Fog	Per Method 509, Procedure 1
Sand/Dust/Volcanic Ash	Per Method 510, Procedure 1
Vibration	Random 2.8Gs, Random 7.6Gs Endurance/Acoustics
Altitude	1500ft below sea level up to 41,000 ft Rapid Decompression Altitudes
Explosive Atmosphere	Method 511, Procedure 1
Shock:	
Functional	15Gs
Survival loads	16Gs
Acceleration loads	12Gs
EMIC (Mil-Std-461E)	CE101, CD102, CS114, RE101, RE102, RS103

All specifications are subject to change without notice.

For additional information and options, please contact your AYON CyberSecurity sales representative.

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HR-9BM65-HT Airborne Qualified UPS Battery Module

Features

The HR-9BM65-HT is a modular Battery Power System that provides the backup power for ACS's AC and DC Uninterruptible Power Systems. Its modular design allows multiple battery power modules to be paralleled to increase on time when pimary power is not available. Small and lightweight, the HR-9DC28-HT is ideal for rack installations where space and weight are critical commodities.

The HR-9BM65-HT UPS Battery Module is equipped with numerous operational and safety features to protect maintenance and service personnel. Control is performed manually or automatically when connected to an AC or DC UPS unit.

The HR-9BM65-HT is designed and developed to military maintainability, reliability and safety requirements and MIL-STD-810 certified for airborne and other harsh environments.

Approval Status

AYON CyberSecurity products are routinely tested and certified for compliance with TEMPEST and Military Standard specifications by various U.S. Government Agencies. Products can also be designed and configured to meet custom specifications as required by individual customer demand.

Warranty
One-year parts and labor;
Lifetime TEMPEST Integrity.

Electrical Characteristics	
Battery Technology	Sealed Lead Acid
Battery Backup	Separate 1U module providing 10 minutes nominal at max power output. Additional modules can be added to increase on time.
Output Voltage	Nominal +48VDC, Min 40VDC, +57VDC Charging
Output Power	Capable of sourcing 100 Amps
Front Panel Indicators	Battery Energy: Multi-color indicator providing battery energy threshold points. Temperature: Multi-color indicator providing battery over temperature indication and power up heater test. On/Off Line: Multi-color indicator providing battery on-line, off-line not connected to UPS, battery disabled.
Control	
Communications Port	RS-485 (Control, Management, BIT and Safety)
Emergency Features	Emergency Stop Switch located on front panel
Fault Alarms	Audible and via network- Loss of AC input, low battery voltage, over temperature alarms via the DC or AC UPS units
On/Off Control	Enable/Disable/Reset Switch located on front panel
Software	GUI Control via DC or AC UPS (Windows or Linux)
Environmental Certifications	
Operating Temperature	-18C to +50C continuous
Storage Temperature	-67C to +160C
MIL-STD-810 for Airborne Applications	
Humidity	Per Method 507, Procedure 1
Fungus	Per Method 508, Procedure 1
Salt/Fog	Per Method 509, Procedure 1
Sand/Dust/Volcanic Ash	Per Method 510, Procedure 1
Vibration	Random 2.8Gs, Random 7.6Gs Endurance/Acoustics
Altitude	1500ft below sea level up to 41,000 ft Rapid Decompression Altitudes
Explosive Atmosphere	Method 511, Procedure 1
Shock	
Functional	15Gs
Survival loads	16Gs
Acceleration loads	12Gs
EMIC (Mil-Std-461E)	CE101, CE102, CS114, RE101, RE102, RS103

All specifications are subject to change without notice.

For additional information and options, please contact your AYON CyberSecurity sales representative.

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HT-9DC28-HT UPS Airborne Qualified DC Module

Features

The HR-9DC28-HT is ACS's high-quality Uninterruptible Power System designed to provide reliable battery backed up DC power for commercial, industrial and military applications. The HR-9DC28-HT converts three-phase 115VAC to +28VDC power at 2000 watts continuous.

The HR-9DC28-HT is fully network-ready. ACS offers management software that provides system-level control and status of a networked power management system or single unit control. The software can be hosted on Windows-based machines using Windows XP, Vista, or Windows 7.

The HR-9DC28-HT is designed and developed to military maintainability, reliability and safety requirements and MIL-STD-810 certified for airborne and other harsh environments.

Approval Status

AYON CyberSecurity products are routinely tested and certified for compliance with TEMPEST and Military Standard specifications by various U.S. Government Agencies. Products can also be designed and configured to meet custom specifications as required by individual customer demand.

Warranty
One-year parts and labor;
Lifetime TEMPEST Integrity.

Electrical Characteristics	
AC Input Voltage	Three Phase or Single Phase 115/220 volts at 400/60/50Hz. Also +270VDC
Battery Backup	Separate 1U module providing 10 minutes nominal at max power output. Additional modules can be added to increase on time.
Output Voltage	+28VDC
Output Power	2000 Watts
Efficiency	85%+
Control	
Communications Port	Ethernet (Network configuration/ control/ status, BIT) TCP/IP data exchange
Operation Log	Downloadable and reviewable
Fault Alarms	Audible and via network- Loss of AC input, low battery voltage, over temperature alarms
Emergency Power-off Control	Discrete Signal or Front Panel Switch or Ethernet Control
Software	GUI Control (Windows or Linux)

Environmental Certifications	
Operating Temperature	-18C to +50C continuous
Storage Temperature	-67C to +160C

MIL-STD-810 for Airborne Applications	
Humidity	Per Method 507, Procedure 1
Fungus	Per Method 508, Procedure 1
Salt/Fog	Per Method 509, Procedure 1
Sand/Dust/Volcanic Ash	Per Method 510, Procedure 1
Vibration	Random 2.8Gs, Random 7.6Gs Endurance/Acoustics
Altitude	1500ft below sea level up to 41,000 ft Rapid Decompression Altitudes
Explosive Atmosphere	Method 511, Procedure 1
Shock:	
Functional	15Gs
Survival loads	16Gs
Acceleration loads	12Gs
EMIC (Mil-Std-461E)	CE101, CD102, CS114, RE101, RE102, RS103

All specifications are subject to change without notice.

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AIRBORNE QUALIFIED SERVER

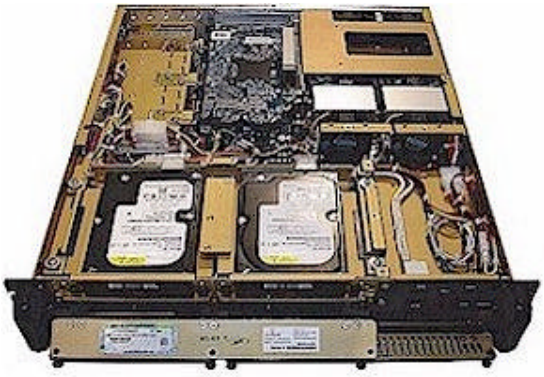
HR-5DS82-AY

AYON Cyber Security is a business supplier of integrated products, services and support to military forces, intelligence agencies, prime contractors and commercial entities worldwide. Focused on defense technology, the company develops, manufactures and supports a broad range of systems and components for complex technology solutions in the areas of TEMPEST, communications, rugged computers, power conversion and digital Imaging.

The HR-5DS82-AY combines both high-performance commercial off-the-shelf (COTS) PC architecture and computing capability with advanced custom avionics interface technology. This unit is designed to meet a variety of airborne applications and tested to meet stringent environmental and EMC standards required of computer electronics installed within military aircraft.

With its high-performance dual Xeon processors, extensive RAM, high-capacity storage high-speed I/O, the HR-5DS82-AY makes a perfect platform for multiple applications.

Design & construction with Advanced Thermal Management control supports reliable and continuous functionality in extreme operating conditions. The HR-5DS82-AY is designed to meet (MIL-STD-810F) and designed to military standards MIL-STD-901D, MIL-STD-167, MIL-STD-1474 further validating the reliable performance in mission-critical applications under demanding conditions.



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For additional information, please contact your AYON CyberSecurity sales representative.

AirBorne Qualified Server
HR-5DS82-AY

Warranty
AYON Cyber Security can provide several warranty options on this product. Please call us for details.

Approval Status
AYON Cyber Security products are routinely tested and certified for compliance with TEMPEST and MIL Standard specifications by various U.S. Government Agencies. Products can also be designed and configured to meet custom specifications as required by individual customer demand.

AYON Cyber Security
- Systems Engineering
- Secure Data Technologies
- Hardware Development, Production and Integration
- Testing & Qualification Services

BASELINE SPECIFICATIONS	
	Dual Intel Xeon X5690, 3.46GHz, 12MB L3 Cache, LGA 1366 130W Six-Core Server processors Intel 5520 chipset, including: 5520 (North Bridge) and ICH10R(South Bridge) 12GB DDR3 SDRAM, 1333MHz/PC310600, Registered ECC DIMM Dual Intel 82576EB dual-port Gigabit Ethernet controllers supporting four Gig-bit LAN ports Two (2) front removable 480GB solid state hard drives (SATA) Blu-ray optical DVD or DVD-RW optical Drive LSI internal SATA/SAS 9211-4i, 6Gb/s PCI – Express 2.0 Raid controller, supports multi-level RAID configurations One PCI-E 2.0 x 16 slot Three PCI-E x 8 slots One PCI-E x4 slot Two 32-bit PCI 33 slots G200 Winbond WPCM450 with integrated graphics Matrox G200 VGA port with 16MB Memory Up to eight USB 2.0 headers Optical Mouse and Keyboard 4 Gigabit LAN Ports Support for up to 6 SATA2 ports
ENVIRONMENT	
Operating voltage range	100-240VAC, 50-60Hz ±10%
Thermal Management	Convection/Conduction cooling
Operating Temperature	-18° to + 50°C
Non-Operating Temperature	-55° to + 71°C
Operating Humidity (non-condensing)	6% to 95%
Non-Operating Humidity (non-condensing)	6% to 100%
HEALTH MONITORING	
	Monitors internal DC voltages Advanced thermal management & control
DESIGNED TO MEET MIL-STD-810 FOR AIRBORNE APPLICATION	
Humidity	Per Method 507, Procedure 1
Explosive Atmosphere	Per Method 511, Procedure 1
Fungus	Per Method 508, Procedure 1
Salt/Fog	Per Method 509, Procedure 1
Sand/Dust	Per Method 510, Procedure 1
Vibration	Random vibration, 10 to 2000Hz - 2.8grms.
Altitude	From sea level to 41k feet - rapid decompression
EMIC	MIL-STD 461 & MIL-STD 462
Shock/Crash Safety	Functional shock, acceleration loads, crash survivable loads
PHYSICAL DIMENSIONS	
Size	3U – 19"w x 25"d x 5.25"h / (.mm x .mm x mm)
Weight	27 lb - *Less packaging*

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For additional information, please contact your AYON CyberSecurity sales representative.

AIRBORNE QUALIFIED GIGABIT ETHERNET SWITCH

HR-5GS51-AY

AYON Cyber Security is a business supplier of integrated products, services and support to military forces, intelligence agencies, prime contractors and commercial entities worldwide. Focused on defense technology, the company develops, manufactures and supports a broad range of systems and components for complex technology solutions in the areas of TEMPEST, communications, rugged computers, power conversion and digital Imaging.

AYON Cyber Security ***HR-5GS51-AY*** is an efficient high quality Gigabit Ethernet Switch based on the Allied Telesis AT-9400 series 24-port network switch.

The HR-5GS51-AY is a rugged 1U 19" rack mount 24-port Managed Ethernet Switch designed for extended temperature operation, shock, vibration and humidity.

The HR-5GS51-AY is a 19" Rack mounted chassis with rack out and lock slides to allow for access to the rear connections.

The HR-5GS51-AY is developed to Military maintainability, reliability and safety requirements as well as designed to meet MIL-STD-810 for airborne and other harsh environments.

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Airborne Qualified Gigabit Network switch

HR-5GS81-AY

Warranty

AYON Cyber Security can provide several warranty options on this product. Please call us for details.

Approval Status

AYON Cyber Security products are routinely tested and certified for compliance with TEMPEST and MIL Standard specifications by various U.S. Government Agencies. Products can also be designed and configured to meet custom specifications as required by individual customer demand.

AYON Cyber Security
- Systems Engineering
- Secure Data Technologies
- Hardware Development, Production and Integration
- Testing & Qualification Services

BASELINE SPECIFICATIONS	
	32MB SDRAM 16MB Flash Memory 200MHz PowerPC CPU 4096 VLANs 16000 MAC addresses 8 Megabytes file system Packet buffer memory Layer 3 managed switch with 20 ports 10/100/1000T / SFP combo ports 1U 19" Rack Mountable
KEY FEATURES	
Layer 3 Support	RIPv2, Static routing, ECMP
Layer 2-4 Intelligence	Packet inspection and classification at MAC,IP, TCP/UDP Layers Set QoS, ACL, mirroring and rate-limiting using traffic classes
Performance	Throughput 71.424Mpps, Switch fabric 96Gbps, 4k VLANs (static and dynamic, 256 static Layer 2 multicast groups, 255 dynamic Layer 2 multicast groups, 9k jumbo frame support DoS attack
Security	protection, Radius/TACACS+, Port Security, SSH, SSL, IEEE 802.1x port-based network access control, Access control lists
Management	Telnet, Web GUI, CLI, Dedicated port management, Management stacking of up to 24 switches with enhanced stacking
ENVIRONMENT	
Operating voltage	100-240VAC, 50-60Hz ±10%
Thermal management	Convection/Conduction cooling
Operating temperature	-18°C to + 50°C continuous
Non-Operating	-67°C to 160°C
DESIGNED TO MEET MIL-STD-810 FOR AIRBORNE APPLICATION	
Humidity	Per Method 507, Procedure 1
Explosive Atmosphere	Per Method 511, Procedure 1
Fungus	Per Method 508, Procedure 1
Salt/Fog	Per Method 509, Procedure 1
Sand/Dust	Per Method 510, Procedure 1
Vibration	Random vibration, 10 to 2000Hz – 2.8grms.
Altitude	From sea level to 41k feet – rapid decompression
EMIC	MIL-STD 461 & MIL-STD 462
Shock/Crash Safety	Functional shock, acceleration loads, crash survivable loads
PHYSICAL DIMENSIONS	
Size	1U - 19"w x 19"d x 1.75"h (482.6mm x 482mm x 44.45mm)
Weight	9 lb - *Less packaging*

ACS
Ayon Cyber Security
a VDC company

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